

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/758,108	01/10/2001	Yuichi Inomata	SCET 18.215	7632
7590 01/30/2004			EXAMINER	
KATTEN MUCHIN ZAVIS ROSENMAN			PHAN, RAYMOND NGAN	
575 MADISON AVENUE NEW YORK, NY 10022-2585			ART UNIT	PAPER NUMBER
			2111	1/
			DATE MAILED: 01/30/2004	. //-

Please find below and/or attached an Office communication concerning this application or proceeding.

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·~	Application No.	Applicant(s)				
	09/758,108	INOMATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Raymond Phan	2111				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 22 h	lovember 2003 .					
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) 1-5 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accept	oted or b) objected to by the Exa	miner.				
Applicant may not request that any objection to the						
11)☐ The proposed drawing correction filed on		oved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)☐ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8	5) 🔲 Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

Application/Control Number: 09/758,108

Art Unit: 2111

Part III DETAILED ACTION

Notice to Applicant(s)

- 1. This action is responsive to the following communications: amendment filed on November 20, 2003.
- 2. This application has been examined. Claims 1-5 are pending.
- 3. The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2111.

Specification

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-5 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Evoy (US No. 6,062,480) in view of Miura et al. (US No. 6,477,596).

In regard to claims 1-3, Evoy discloses an interface device 18 for establishing an interface between a CPU 26 and an external unit 28, comprising a

Application/Control Number: 09/758,108

Art Unit: 2111

timer, a mask portion and an interrupt controlling wherein the timer portion asserts a mask signal when detecting that a wait signal outputted from the external device is kept asserted for more than a predetermined period of time (see 4, lines 50-64); the mask portion masks the wait signal and outputs to the CPU when the mask signal is asserted (see col. 3, lines 54-66) and the interrupt portion issues an interrupt signal to the CPU when the mask signal is asserted (see col. 3, line 34-44). But Evoy does not specifically disclose the timer portion asserts a mask signal when detecting that a wait signal outputted from the external device is kept asserted for more than a predetermined period of time. However Miura et al. disclose the timer portion asserts a mask signal when detecting that a wait signal outputted from the external device is kept asserted for more than a predetermined period of time (see col. 5, line 27 through col. 6, line 67). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Miura et al. into the teachings of Evoy because it would prevent data conflicts from occurring while avoiding performance degradation.

In regard to claims 4-5, Evoy discloses wherein the CPU detects the interrupt signal thereby to recover the external unit (see col. 3, line 66 through col. 4, line 3).

Response to Amendment

7. Applicant's arguments, see pages 5-7, filed November 22, 2003, with respect to the rejection(s) of claim(s) 1-5 under 35 U.S.C. § 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Miura et al.

Application/Control Number: 09/758,108

Art Unit: 2111

Conclusion

5. All claims are rejected.

6. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure.

Fung et al. (US No. 5,881,251) disclose a hot swap control circuit.

Bonella et al. (US No. 5,797,020) disclose a bus master arbitration circuitry having improved prioritization.

Matsui et al. (US No. 6,594,720) disclose a data processing system having a PC card type interface with assigned addressing.

Cho et al. (US No. 5,530,906) disclose a control circuit responses to a wait request from an address decoder for controlling clock signal supply to a CPU to operate with slow peripheral.

Balasubramanian (US No. 6,633,942) discloses a distributed real-time operating system providing integrated interrupt management.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Raymond Phan, whose telephone number is (703) 306-2756. The examiner can normally be reached on Monday-Friday from 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Primary, Paul Myers can be reached on (703) 305-9656 or via e-mail addressed to paul.myers@uspto.gov. The fax phone number for this Group is (703) 746-7239.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [raymond.phan@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Raymond Phan 1/24/04